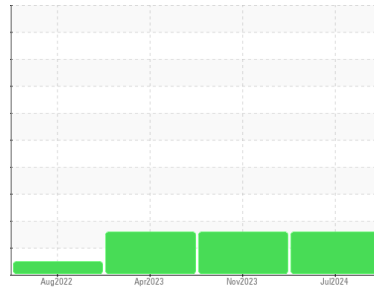




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**7907682 (S/N 1456)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KC129725</b>	KC107421	KC112454
Sample Date	Client Info			<b>03 Jul 2024</b>	03 Nov 2023	20 Apr 2023
Machine Age	hrs	Client Info		<b>4424</b>	2942	2022
Oil Age	hrs	Client Info		<b>1482</b>	800	1011
Oil Changed	Client Info			<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	2	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	1	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	2	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>42</b>	5	29
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	90	<b>77</b>	65	71
Calcium	ppm	ASTM D5185m	2	<b>2</b>	2	<1
Phosphorus	ppm	ASTM D5185m		<b>&lt;1</b>	2	0
Zinc	ppm	ASTM D5185m		<b>4</b>	0	2

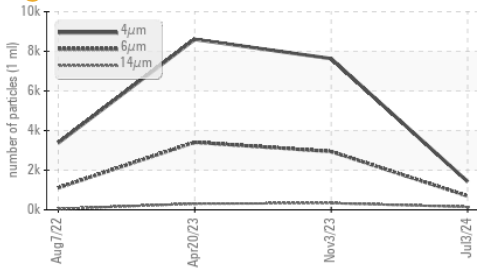
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>1</b>	4	2
Sodium	ppm	ASTM D5185m		<b>13</b>	13	9
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	4	3
Water	%	ASTM D6304	>0.05	<b>0.023</b>	0.02	0.015
ppm Water	ppm	ASTM D6304	>500	<b>233</b>	200	154.6

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>1426</b>	7630	8604
Particles >6µm		ASTM D7647	>1300	<b>697</b>	▲ 2941	▲ 3410
Particles >14µm		ASTM D7647	>80	● <b>145</b>	▲ 337	▲ 309
Particles >21µm		ASTM D7647	>20	● <b>56</b>	▲ 79	▲ 58
Particles >38µm		ASTM D7647	>4	● <b>7</b>	2	2
Particles >71µm		ASTM D7647	>3	● <b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● <b>18/17/14</b>	▲ 20/19/16	▲ 20/19/15

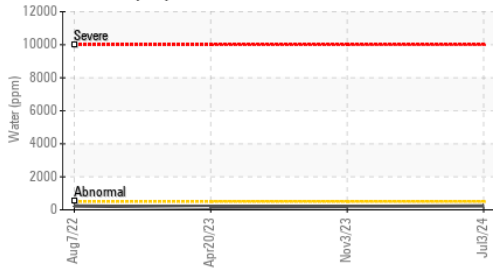
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.34</b>	0.28	0.28

# OIL ANALYSIS REPORT

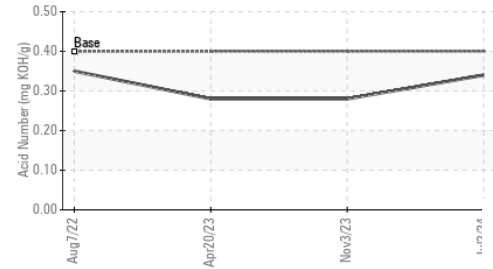
## Particle Trend



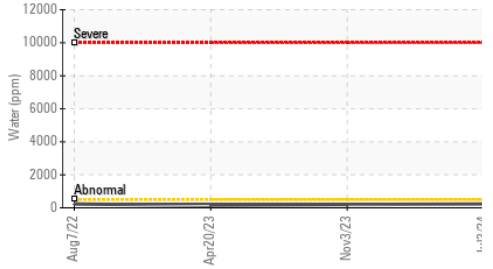
## Water (KF)



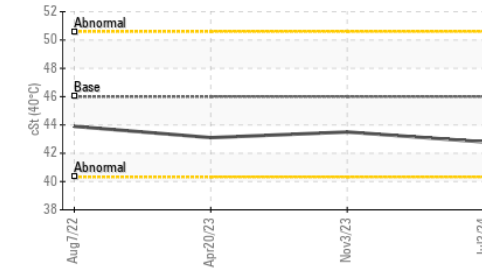
## Acid Number



## Water (KF)



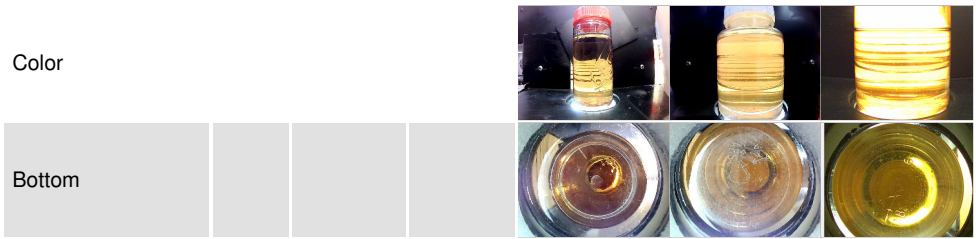
## Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

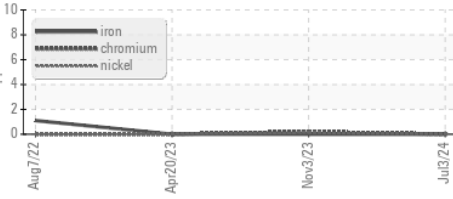
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	42.8	43.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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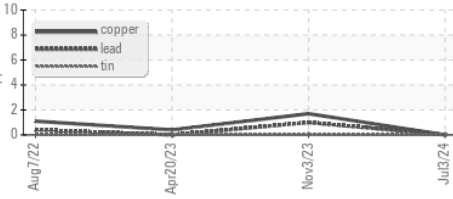


## GRAPHS

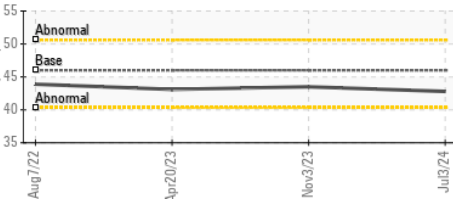
### Ferrous Alloys



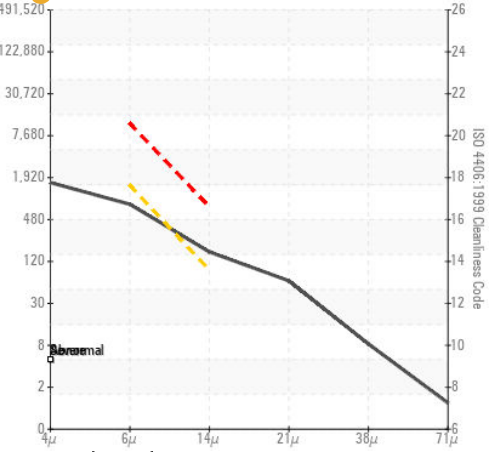
### Non-ferrous Metals



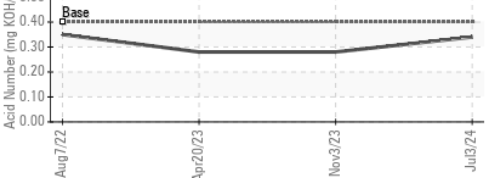
### Viscosity @ 40°C



### Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC129725  
**Lab Number** : 06233845  
**Unique Number** : 11122679  
**Test Package** : IND 2  
**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 13 Jul 2024 - Don Baldrige

**OCEAN DRIVE CLOTHING**  
 530 N MICHIGAN AVE  
 KENILWORTH, NJ  
 US 07033  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: